



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/724,264
Source: 1FW9
Date Processed by STIC: 12/19/03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - cPAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



II

RAW SEQUENCE LISTING

DATE: 12/19/2003

PATENT APPLICATION: US/10/724,264

TIME: 13:02:10

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Output Set: N:\CRF4\12192003\J724264.raw

3 <110> APPLICANT: JENSEN, Rasmus B.
 4 KELEMEN, Bradley
 6 <120> TITLE OF INVENTION: PROTEORHODOPSIN MUTANTS WITH IMPROVED OPTICAL CHARACTERISTICS
 8 <130> FILE REFERENCE: 02716.0005.NPUS01
 > 10 <140> CURRENT APPLICATION NUMBER: US/10/724,264
 > 10 <141> CURRENT FILING DATE: 2003-11-26
 10 <150> PRIOR APPLICATION NUMBER: 60/429,518
 11 <151> PRIOR FILING DATE: 2002-11-26
 13 <160> NUMBER OF SEQ ID NOS: 212
 15 <170> SOFTWARE: PatentIn version 3.2
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 252
 19 <212> TYPE: PRT
 20 <213> ORGANISM: Marine eubacteria
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 32 Val Ser Phe Trp Leu Val Thr Ala Gly Met Leu Ala Ala Thr Val Phe
 33 35 40 45
 36 Phe Phe Val Glu Arg Asp Gln Val Ser Ala Lys Trp Lys Thr Ser Leu
 37 50 55 60
 40 Ala Val Ser Gly Leu Ile Thr Gly Ile Ala Phe Trp His Tyr Leu Tyr
 41 65 70 75 80
 44 Met Arg Gly Val Trp Ile Asp Thr Gly Asp Thr Pro Thr Val Phe Arg
 45 85 90 95
 48 Tyr Ile Asp Trp Leu Leu Thr Val Pro Leu Gln Met Val Glu Phe Tyr
 49 100 105 110
 52 Leu Ile Leu Ala Ala Cys Thr Ser Val Ala Ala Ser Leu Phe Lys Lys
 53 115 120 125
 56 Leu Leu Ala Gly Ser Leu Val Met Leu Gly Ala Gly Phe Ala Gly Glu
 57 130 135 140
 60 Ala Gly Leu Ala Pro Val Leu Pro Ala Phe Ile Ile Gly Met Ala Gly
 61 145 150 155 160
 64 Trp Leu Tyr Met Ile Tyr Glu Leu Tyr Met Gly Glu Gly Lys Ala Ala
 65 165 170 175
 68 Val Ser Thr Ala Ser Pro Ala Val Asn Ser Ala Tyr Asn Ala Met Met
 69 180 185 190
 72 Met Ile Ile Val Val Gly Trp Ala Ile Tyr Pro Ala Gly Tyr Ala Ala
 73 195 200 205
 76 Gly Tyr Leu Met Gly Gly Glu Gly Val Tyr Ala Ser Asn Leu Asn Leu
 77 210 215 220

pp 6-7
 Does Not Comply
 Corrected Diskette Needed

RAW SEQUENCE LISTING

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Output Set: N:\CRF4\12192003\J724264.raw

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98 ggtatgtag cggcaactgt gttctttttt gtagaaagag accaagtcag cgctaagtg      180
100 aaaacttcac ttgctgtatc tggtttaatt actggtatag ctttttggca ttatctctat    240
102 atgagaggtg tttggataga cactgggtgat accccaacag tattcagata tattgattgg    300
104 ttattaactg ttccattaca aatgggttag ttctatctaa ttcttgctgc ttgtacaagt    360
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114 atttaccctg ctggatatgc tgctgggttac ctaatgggtg gcgaagggtg atacgcttca    660
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133                20                25                30
136 Phe Trp Leu Val Thr Ala Ala Leu Ala Ser Thr Val Phe Phe Phe
137                35                40                45
140 Val Glu Arg Asp Arg Val Ser Ala Lys Trp Lys Thr Ser Leu Thr Val
141                50                55                60
144 Ser Gly Leu Val Thr Gly Ile Ala Phe Trp His Tyr Met Tyr Met Arg
145 65                70                75                80
148 Gly Val Trp Ile Glu Thr Gly Asp Ser Pro Thr Val Phe Arg Tyr Ile
149                85                90                95
152 Asp Trp Leu Leu Thr Val Pro Leu Leu Ile Cys Glu Phe Tyr Leu Ile
153                100               105               110
156 Leu Ala Ala Ala Thr Asn Val Ala Gly Ser Leu Phe Lys Lys Leu Leu
157                115               120               125
160 Val Gly Ser Leu Val Met Leu Val Phe Gly Tyr Met Gly Glu Ala Gly
161                130               135               140
164 Ile Met Ala Ala Trp Pro Ala Phe Ile Ile Gly Cys Leu Ala Trp Val
165 145               150               155               160
168 Tyr Met Ile Tyr Glu Leu Trp Ala Gly Glu Gly Lys Ser Ala Cys Asn
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Input Set : A:\02716.0005.NPUS01.ST25.txt

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176 Ile Ile Phe Gly Trp Ala Ile Tyr Pro Val Gly Tyr Phe Thr Gly Tyr
177          195          200          205
180 Leu Met Gly Asp Gly Gly Ser Ala Leu Asn Leu Asn Leu Ile Tyr Asn
181          210          215          220
184 Leu Ala Asp Phe Val Asn Lys Ile Leu Phe Gly Leu Ile Ile Trp Asn
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202 ttagcatcta ctgtattttt ctttggtgaa agagatagag tttctgcaaa atggaaaaca      180
204 tcattaactg tatctgggtct tgttactggg attgctttct ggcattacat gtacatgaga      240
206 ggggtatgga ttgaaaactgg tgattcgcca actgtattta gatacattga ttgggttacta      300
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218 cctgtaggtt atttcacagg ttacctgatg ggtgacggtg gatcagctct taacttaaac      660
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236 Thr Phe Ala Ala Gly Gly Gly Asp Leu Asp Ala Ser Asp Tyr Thr Gly
237          20          25          30
240 Val Ser Phe Trp Leu Val Thr Ala Ala Leu Leu Ala Ser Thr Val Phe
241          35          40          45
244 Phe Phe Val Glu Arg Asp Arg Val Ser Ala Lys Trp Lys Thr Ser Leu
245          50          55          60
248 Thr Val Ser Gly Leu Val Thr Gly Ile Ala Phe Trp His Tyr Met Tyr
249 65          70          75          80
252 Met Arg Gly Val Trp Ile Glu Thr Gly Asp Ser Pro Thr Val Phe Arg
253          85          90          95
256 Tyr Ile Asp Trp Leu Leu Thr Val Pro Leu Leu Ile Cys Glu Phe Tyr
257          100          105          110
260 Leu Ile Leu Ala Ala Ala Thr Asn Val Ala Ala Gly Leu Phe Lys Lys
261          115          120          125

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272 Trp Val Tyr Met Ile Tyr Glu Leu Trp Ala Gly Glu Gly Lys Ala Ala
273      165      170      175
276 Cys Asn Thr Ala Ser Pro Ala Val Gln Ser Ala Tyr Asn Thr Met Met
277      180      185      190
280 Tyr Ile Ile Ile Phe Gly Trp Ala Ile Tyr Pro Val Gly Tyr Phe Thr
281      195      200      205
284 Gly Tyr Leu Met Gly Asp Gly Gly Ser Ala Leu Asn Leu Asn Leu Ile
285      210      215      220
288 Tyr Asp Leu Ala Asp Phe Val Asn Lys Ile Leu Phe Gly Leu Ile Ile
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307 Thr Phe Ala Ala Gly Gly Gly Asp Leu Asp Ala Ser Asp Tyr Thr Gly
308      20      25      30
311 Val Ser Phe Trp Leu Val Thr Ala Ala Leu Leu Ala Ser Thr Val Phe
312      35      40      45
315 Phe Phe Val Glu Arg Asp Arg Val Ser Ala Lys Trp Lys Thr Ser Leu
316      50      55      60
319 Thr Val Ser Gly Leu Val Thr Gly Ile Ala Phe Trp His Tyr Met Tyr
320 65      70      75      80
323 Met Arg Gly Val Trp Ile Glu Thr Gly Asp Ser Pro Thr Val Phe Arg
324      85      90      95
327 Tyr Ile Asp Trp Leu Leu Thr Val Pro Leu Leu Ile Cys Glu Phe Tyr
328      100      105      110
331 Leu Ile Leu Ala Ala Ala Thr Asn Val Ala Ala Gly Leu Phe Lys Lys
332      115      120      125
335 Leu Leu Val Gly Ser Leu Val Met Leu Val Phe Gly Tyr Met Gly Glu
336      130      135      140
339 Ala Gly Ile Met Asn Ala Trp Gly Ala Phe Val Ile Gly Cys Leu Ala
340 145      150      155      160
343 Trp Val Tyr Met Ile Tyr Glu Leu Trp Ala Gly Glu Gly Lys Ala Ala
344      165      170      175
347 Cys Asn Thr Ala Ser Pro Ala Val Gln Ser Ala Tyr Asn Thr Met Met
348      180      185      190
351 Tyr Ile Ile Ile Phe Gly Trp Ala Ile Tyr Pro Val Gly Tyr Phe Thr
352      195      200      205
355 Gly Tyr Leu Met Gly Asp Gly Gly Ser Ala Leu Asn Leu Asn Leu Ile
356      210      215      220

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Output Set: N:\CRF4\12192003\J724264.raw

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359 Tyr Asp Leu Ala Asp Phe Val Asn Lys Ile Leu Phe Gly Leu Ile Ile
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370 <213> ORGANISM: Marine eubacteria
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378 Thr Phe Ala Ala Gly Gly Gly Asp Leu Asp Ala Ser Asp Tyr Thr Gly
379                20                25                30
382 Val Ser Phe Trp Leu Val Thr Ala Ala Leu Leu Ala Ser Thr Val Phe
383                35                40                45
386 Phe Phe Val Glu Arg Asp Arg Val Ser Ala Lys Trp Lys Thr Ser Leu
387 50                55                60
390 Thr Val Ser Gly Leu Val Thr Gly Ile Ala Phe Trp His Tyr Met Tyr
391 65                70                75                80
394 Met Arg Gly Val Trp Ile Glu Thr Gly Asp Ser Pro Thr Val Phe Arg
395                85                90                95
398 Tyr Ile Asp Trp Leu Leu Thr Val Pro Leu Leu Ile Cys Glu Phe Tyr
399                100               105               110
402 Leu Ile Leu Ala Ala Ala Thr Asn Val Ala Gly Ser Leu Phe Lys Lys
403                115               120               125
406 Leu Leu Val Gly Ser Leu Val Met Leu Val Phe Gly Tyr Met Gly Glu
407 130               135               140
410 Ala Gly Ile Met Ala Ala Trp Pro Ala Phe Ile Ile Gly Cys Leu Ala
411 145               150               155               160
414 Trp Val Tyr Met Ile Tyr Glu Leu Tyr Ala Gly Glu Gly Lys Ser Ala
415                165               170               175
418 Cys Asn Thr Ala Ser Pro Ser Val Gln Ser Ala Tyr Asn Thr Met Met
419                180               185               190
422 Ala Ile Ile Val Phe Gly Trp Ala Ile Tyr Pro Ile Gly Tyr Phe Thr
423                195               200               205
426 Gly Tyr Leu Met Gly Asp Gly Gly Ser Ala Leu Asn Leu Asn Leu Ile
427 210               215               220
430 Tyr Asn Leu Ala Asp Phe Val Asn Lys Ile Leu Phe Gly Leu Ile Ile
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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/724,264

DATE: 12/19/2003
TIME: 13:02:11

Input Set : A:\02716.0005.NPUS01.ST25.txt
Output Set: N:\CRF4\12192003\J724264.raw

of <220> Feature (NEW RULES) :

ence(s) are missing the <220> Feature and associated headings.

of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" Unknown". Please explain source of genetic material in <220> to <223> tion (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) c.1.823 of new Rules)

#:186,187,188,189,190,191,192,193,194,195,196,197,198,199,200,201,202,203
#:204,205,212

(see p. 7 for samples)

10/724,264

7

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<213> ORGANISM: artificial sequence

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21

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/724,264

DATE: 12/19/2003

TIME: 13:02:11

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/724,264

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